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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,359	01/21/2004	Yoshihiro Saeki	030712-21	8709
22204	7590	03/15/2007		
NIXON PEABODY, LLP 401 9TH STREET, NW SUITE 900 WASHINGTON, DC 20004-2128			EXAMINER HA, NATHAN W	
			ART UNIT	PAPER NUMBER
			2814	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/15/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/760,359

Applicant(s)

SAEKI ET AL.

Examiner

Nathan W. Ha

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 27 December 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by  
Kawaishi (US 6,798,071, previously cited.)

In regard to claims 1-2 and 10, in fig. 3, Kawaishi discloses a semiconductor device comprising:

a first semiconductor chip 1;

a second semiconductor chip 2 which mounted on the first chip;

a first electrode group 32 located on the first chip so as to be arranged on an outer periphery of the second chip;

a second electrode group 33 located on the first chip and arranged along an outer periphery of the first chip, wherein the second electrode group surround the first electrode group;

a third electrode group, not numbered, located on the second chip;

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a plurality of first wires 6, fig. 6, for electrically connecting the first electrode group and the third electrode group; and

external connection terminals, not numbered, located around the first semiconductor chip and electrically connected to the second electrode group,

wherein the first chip has a first circuit area on which the second chip mounted and a second circuit area which positioned between the first electrode group and the second electrode group, and wherein the second area includes a circuit, or the delay circuit, which prevents crossing therein. See also, col. 6, lines 60-66. It is further noted that the arrangement of the elements as disclosed is susceptible to influence of noise which is generated by the surrounding devices, inherently.

In regard to claim 3, wherein the external connection terminals are conductive leads 3;

the plurality of leads are arranged along the outer periphery of the first semiconductor chip at positions separate from the first semiconductor chip by a predetermined distance; and

the second electrode and the leads are electrically connected to each other by a plurality of second wires 7, fig. 2.

In regard to claims 4 and 11, Kawaishi further discloses wherein a size of the second semiconductor chip is smaller than that of the first semiconductor chip. Fig. 3.

In regard to claims 5, 13, and 20, Kawaishi further discloses wherein the first semiconductor chip and the second semiconductor chip are sealed with a resin 10, fig.

In regard to claims 6 and 14, see the above discussions regarding to claim 3, and the wires also encapsulated in the resin, fig. 3.

In regard to claim 7, wherein the first semiconductor chip is formed on a support, not numbered, see fig. 3.

In regard to claim 8, Kawaishi discloses that the first and second groups are located on the periphery of the first chip. Fig. 3.

In regard to claim 9, the third group is located along the outer periphery of the second chip, fig. 3.

In regard to claims 12, 17, and 19, a relay circuit is analog circuit.

In regard to claim 15, see the discussion regarding to claim 3.

In regard to claims 16 and 18, the central circuit area can occupy outside of the perimeter of the second chip area since the first chip is significantly larger than the second chip. Fig. 3.

### ***Response to Arguments***

3. Applicant's arguments filed 12/27/06 have been fully considered but they are not persuasive. For instance, the Applicants argue that the cited reference does not disclose, "the circuit area includes a circuit which is susceptible to influence of noise", and further contend that the elements such as the relay electrode as taught by Kawaishi are not circuit. It should be noted that, in general, circuits are formed in different ways. They are composed of electronic devices and pads, wires, traces, for example. Thus, a relay is considered to be part of a circuit. In this case, the relay electrodes as disclosed

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by Kawaishi falls into this category. The Applicants' specification does not explicitly describe the circuit as claimed, or the drawings. For example, Applicants' drawings only show wires and pads connections. Nowhere in the drawing describes a detailed circuit. Thus, it would be obvious to one of ordinary skill in the art to recognize the equivalency of the elements as taught by the cited reference and the limitation as claimed. However, if the Applicants maintain the argument in order to disqualify the relay electrode as a circuit, the Applicants must explicitly show how "the circuit" is composed.

### ***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

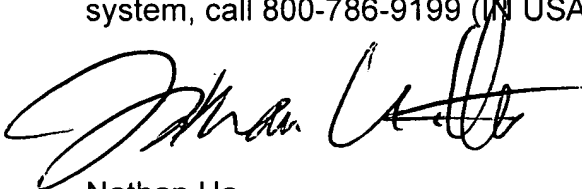
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan W. Ha whose telephone number is (571) 272-1707. The examiner can normally be reached on M-TH 8:00-7:00(EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Nathan Ha', with a stylized flourish extending to the right.

Nathan Ha  
PPE